

Title (en)

AC to AC power converter with a controllable power factor.

Title (de)

Wechselstrom-Wechselstrom-Leistungswandler mit steuerbarem Leistungsfaktor.

Title (fr)

Convertisseur de puissance courant alternatif/courant alternatif à facteur de puissance commandé.

Publication

EP 0072526 A1 19830223 (EN)

Application

EP 82107253 A 19820810

Priority

US 29304581 A 19810814

Abstract (en)

[origin: US4352156A] The input power factor of an AC to AC static power converter is continuously adjustable between a maximum leading or lagging phase angle, determined by the load power factor, through rapidly transferring between conventional and complementary unrestricted frequency changer operation with the proportion of each sub generator cycle interval dedicated to each mode of operation being selected to produce the desired input power factor. Since the input power factor affects generator excitation, the input power factor control can be used in a closed loop feedback control system to regulate generator voltage.

IPC 1-7

H02M 5/297; **H02P 13/30**

IPC 8 full level

H02M 5/27 (2006.01); **H02M 1/084** (2006.01); **H02M 5/297** (2006.01)

CPC (source: EP US)

H02M 1/084 (2013.01 - EP US); **H02M 5/297** (2013.01 - EP US)

Citation (search report)

- [A] US 3707665 A 19721226 - GYUGYI LASZLO
- [A] US 3707666 A 19721226 - GYUGYI LASZLO
- [A] US 3982168 A 19760921 - BOSE BIMAL K, et al
- [A] IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, Vol. IA-16, No. 4, July/August, 1980, New York L.GYUGYI "Input Power Factor of AC to AC Power Converters", pages 524-534

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

US 4352156 A 19820928; EP 0072526 A1 19830223; JP S5839272 A 19830307

DOCDB simple family (application)

US 29304581 A 19810814; EP 82107253 A 19820810; JP 14000382 A 19820813